

RECEIVED
CENTRAL FAX CENTER
JAN 31 2006

PATENT
Atty. Dkt. No. SEDN/307
Serial No. 09/708,809
Page 2 of 8

LISTING OF THE CLAIMS

1. (Previously presented) A method of communications for an interactive program guide (IPG), comprising:

receiving, by a session manager from a terminal, a demand-cast request message for a particular region of a particular interactive program guide (IPG) page, the particular region being one of a plurality of regions, the regions including a guide region, a video region, an icon region, and a program description region, the particular IPG page being one of a plurality of IPG pages;

sending, by the terminal to the session manager, a stream acquired message, when it is determined at the terminal that the particular region is currently received at the terminal;

sending, by the session manager to a transport stream generator, a stream requested message, when the particular region is not currently received at the terminal;

sending, by the session manager, to the transport stream generator, a stream acquired message, when the particular region is currently received at the terminal;

generating, by a transport stream generator, a stream for the particular region, upon receiving the stream requested message from the session manager;

2-3. (Cancelled)

4. (Previously presented) The method of claim 1, wherein demand-cast request message includes a plurality of fields and has a hierarchical structure, the fields including a first field that determines a particular format of remaining fields in the message format.

5. (Previously presented) The method of claim 1, wherein the demand-cast request message includes a first field identifying the particular region in the particular IPG page.

PATENT
Atty. Dkt. No. SEDN/307
Serial No. 09/708,809
Page 3 of 8

6. (Previously presented) The method of claim 5, wherein the particular region is the guide region and the demand-cast request message includes a second field identifying a particular filter selected from among a plurality of filters.
7. (Original) The method of claim 6, wherein the plurality of filters include one or more filters selected from the group consisting of pay per view (PPV), favorites, movies, kids, and sports filters.
8. (Previously presented) The method of claim 6, wherein the demand-cast request message further includes a third field identifying the particular IPG page.
9. (Previously presented) The method of claim 8, wherein the third field includes a fourth field indicative of a particular time slot selected from among a plurality of time slots, wherein the selected time slot corresponds to a time period covered by the particular IPG page.
10. (Previously presented) The method of claim 9, wherein the third field further includes a fifth field indicative of the particular IPG page selected from the IPG pages available for the selected time slot.
11. (Cancelled)
12. (Previously presented) The method of claim 4, wherein the region is the video region and the demand-cast request message further includes a second field indicative of a particular type of video selected from among a plurality of video types.
- 13-21. (Cancelled)
22. (Previously presented) A system for communication for an interactive delivery system, comprising:

426705-1

PATENT

Atty. Dkt. No. SEDN/307

Serial No. 09/708,809

Page 4 of 8

a plurality of terminals to receive a plurality of interactive program guide (IPG) pages, to send a plurality of terminal-to-SM messages, the terminal-to-SM messages indicating acquisition, release, or request of one of a plurality of demand-cast streams, and to receive a plurality of TSG-to-terminal messages;

a session manager (SM) to deliver IPG pages to the terminals, to monitor demand-cast stream usage by the terminals, to track the demand-cast streams that are acquired by at least one of the terminals, to send a plurality of SM-to-TSG messages, and to receive the terminal-to-SM messages, and to receive the terminal-to-SM messages and the TSG-to-SM messages; and

a transport stream generator (TSG) to generate the demand-cast streams, to maintain a status for each demand-cast stream being served, to send the TSG-to-terminal messages and TSG-to-SM messages, and to receive the SM-to-TSG messages from the session manager, the SM-to-TSG messages indicating whether there is no longer any terminal registered to a particular demand-cast stream and when there is a demand-cast stream request;

wherein each terminal is coupled to both the session manager and the transport stream generator via a distribution network;

wherein the terminal-to-SM message for requesting one of the demand-cast streams identifies a particular region of a particular IPG page, the particular region being one of a plurality of regions, the regions including a guide region, a video region, an icon region, and a program description region, the particular IPG page being one of the IPG pages.

23. (Previously presented) The system of claim 22, further comprising:

a plurality of local neighborhood equipment including the transport stream generator; and

a headend including the session manager.

24. (Previously presented) The system of claim 22, further comprising:

a headend including the session manager and the transport stream.

PATENT

Atty. Dkt. No. SEDN/307

Serial No. 09/708,809

Page 5 of 8

25. (Previously presented) The system of claim 22, further comprising:
a plurality of distribution nodes including the session manager and the transport stream generator.
26. (Previously presented) The system of claim 22, wherein the TSG-to-terminal messages include a list of available demand-cast streams.
27. (Previously presented) The system of claim 22, wherein the SM-to-TSG messages indicate stream released, stream requested, or reset for one of the demand-cast streams.
28. (Previously presented) The system of claim 22, wherein the TSG-to-SM messages include an acknowledgement of stream release, stream request, or reset for one of the demand-cast streams.
29. (Withdrawn) A method for communication for an interactive delivery system, comprising:
partitioning, by a transport stream generator at a headend, a plurality of interactive program guide (IPG) pages into a plurality of regions, the regions including a guide region, a video region, an icon region, and a program description region;
encoding each region using slice-based encoding;
transmitting, from the transport stream generator to a plurality of terminals, each encoded region separately;
recombining the regions at each terminal to assemble each IPG page, some IPG pages being constructed by just replacing at least one region in an existing IPG page;
receiving a demand-cast request message including a region identifier to identify one of the regions of one of the IPG pages; and
transmitting, in response to the demand-cast request message, the requested region.

426705-1

PATENT

Atty. Dkt. No. SEDN/307

Serial No. 09/708,809

Page 6 of 8

30. (Withdrawn) The method of claim 29, wherein the demand-cast request message further includes a subtype field, a time slot field, and a page offset field, the subtype field identifying a filter that is selected from the group consisting of: pay-per-view, favorites, movies, kids, sports, and music, the page offset field identifying a particular IPG page.

32. (Withdrawn) The method of claim 29, wherein the demand-cast request message is for a particular video for the video region.

33. (Withdrawn) The method of claim 32, wherein the particular video is an advertisement.